

METHOD AND SYSTEM FOR DEADLOCK DETECTION AND AVOIDANCE

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ABSTRACT

10 The invention relates to a method of operating a
computer system supporting multiple processes, and the
intention is to avoid deadlock (an example of which is
where process A owns resource A, and is waiting on
resource B, but resource B is currently owned by process
B, which is waiting on resource A). The method commences
with receipt of a request from a first process for access
to a resource of said computer system. If the requested
15 resource is currently unavailable because it is currently
owned by another process, the system examines which
processes own or are waiting for other resources on the
system, in order to try to detect whether adding the
first process to a queue for the requested resource would
20 cause a deadlock situation to arise. If so, the system
will typically throw an exception, or possibly return an
error to the request for the resource.